Ratchet P-Clamp

The Ratchet P-Clamp family offers versatility when managing wires, cables and hoses. The robust design and durable materials make it ideal for heavy duty applications, both in- and outdoors. The one-piece adjustable clamp can be closed by hand to the desired diameter. The release feature provides easy and nondestructive removal of cables simply by using a flat-head screwdriver. This nondestructive release allows the clamp to be reused without removing or replacing any bolts or screws. The Ratchet P-Clamp is offered in four sizes and multiple mounting configurations.

Features and benefits

- One-piece ratchet closure design allows for easy installation during pre- or final assembly
- Multiple configurations handle a wide range of diameters and applications, reducing part inventory
- Clamp interior is designed to guide and center bundle to reduce pinching
- Easy release feature allows for quick adjustments and maintenance
- Impact modified, heat and UV stabilized PA66 provides long-term durability, in- and outdoors
- Steel mounting plate tolerates high torque mounting and is treated to resist chemicals and salt spray



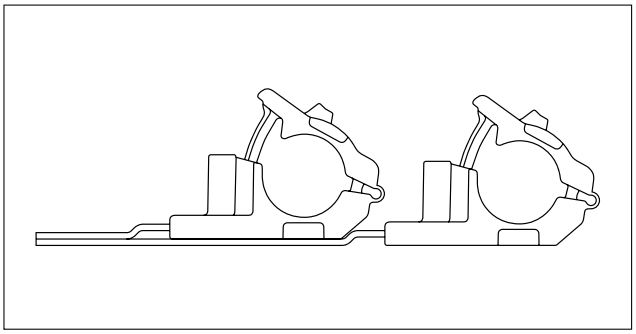
Ratchet P-Clamp - A more versatile way to mount and clamp cables.

www.HellermannTyton.co.uk/PClamp-cat22

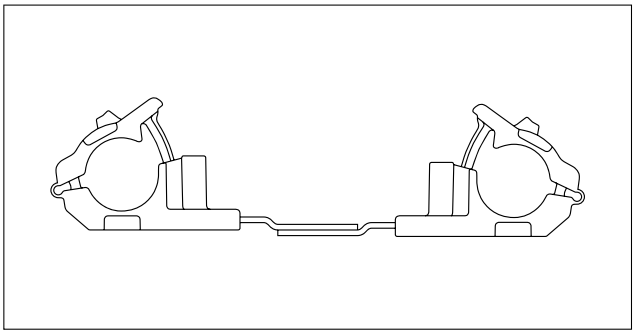
Material specification please see page 26.

Multiple configurations

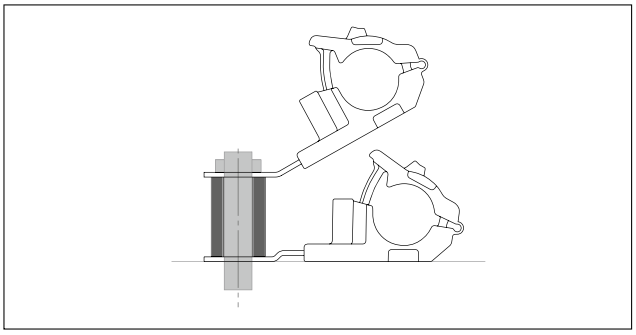
The wiring schemes in heavy duty applications become more complex day after day. Using a single mounting point, you can combine Ratchet P-Clamps to match the number, position and diameters of the wires or bundles inherent to today's wire management challenges. You will see below just a few of the nearly endless number of configurations you can arrange by mixing Ratchet P-Clamps of varying sizes and different mounting plates.



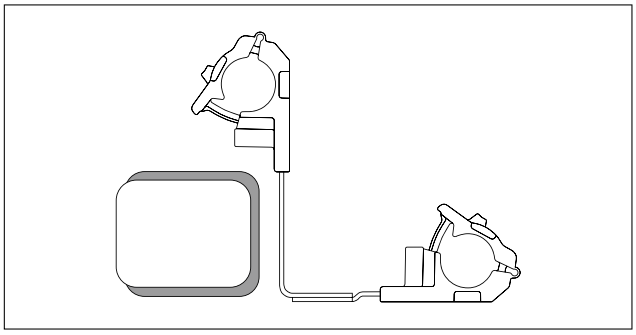
You can piggy-back Ratchet P-Clamps by using different length mounting plates to secure parallel cable configurations.



Ratchet P-Clamp mounting plates are shaped to allow face-to-face positioning. By using different length mounting plates, you can vary the distance between bundles and take advantage of the optimal routing path.



Add a spacer between Ratchet P-Clamps to speed installation and maintenance of stacked wire bundles.



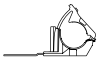
90° angle mounting plates enable you to work around obstacles and protect wire from contacting moving parts.

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Ratchet P-Clamp

For bundle diameters from 6.2 mm to 13.7 mm, A-Series

TYPE	Drawing	Width (W)	Length (L2)	Bundle Ø min.	Bundle Ø max.	Hole Ø (FH)	Fixing Hole Centres (F)	Variant	Material	Colour	Article-No.
RCA180LM6		34.9	134.1	6.2	13.7	6.5	101.5	Long	PA66HIRHSUV, ST, ZN	Black (BK)	151-01639
RCA180MM6		34.9	105.1	6.2	13.7	6.5	72.5	Medium	PA66HIRHSUV, ST, ZN	Black (BK)	151-01638
RCA180SM6		34.9	83.1	6.2	13.7	6.5	50.5	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01637
RCA180SM8		34.9	83.1	6.2	13.7	8.31	50.5	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01416
RCA90LM6		34.9	96.8	6.2	13.7	6.5	24.9	Long	PA66HIRHSUV, ST, ZN	Black (BK)	151-01644
RCA90LM8		34.9	96.8	6.2	13.7	8.31	24.9	Long	PA66HIRHSUV, ST, ZN	Black (BK)	151-01437
RCA90SM6		34.9	68.8	6.2	13.7	6.5	24.9	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01643

All dimensions in mm. Subject to technical changes.

For bundle diameters from 12.7 mm to 19.5 mm, B-Series

TYPE	Drawing	Width (W)	Length (L2)	Bundle Ø min.	Bundle Ø max.	Hole Ø (FH)	Fixing Hole Centres (F)	Variant	Material	Colour	Article-No.
RCB180LM6		34.9	134.1	12.7	19.5	6.5	103.8	Long	PA66HIRHSUV, ST, ZN	Black (BK)	151-01647
RCB180SM6		34.9	83.1	12.7	19.5	6.5	52.8	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01645
RCB180SM8		34.9	83.1	12.7	19.5	8.31	52.8	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01440
RCB180SM10		34.9	83.1	12.7	19.5	10.29	52.8	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01390
RCB180SM12		34.9	83.1	12.7	19.5	12.95	52.8	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01441
RCB90LM6		34.9	96.8	12.7	19.5	6.5	26.7	Long	PA66HIRHSUV, ST, ZN	Black (BK)	151-01652
RCB90LM8		34.9	96.8	12.7	19.5	8.31	26.7	Long	PA66HIRHSUV, ST, ZN	Black (BK)	151-01460
RCB90SM6		34.9	68.8	12.7	19.5	6.5	26.7	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01651
RCB90SM8		34.9	68.8	12.7	19.5	8.31	26.7	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01457

All dimensions in mm. Subject to technical changes.

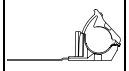
c UL us For product specific approvals and specifications please refer to the Appendix.

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Ratchet P-Clamp

For bundle diameters from 19.4 mm to 36.0 mm, C-Sereis

TYPE	Drawing	Width (W)	Length (L2)	Bundle Ø min.	Bundle Ø max.	Hole Ø (FH)	Fixing Hole Centres (F)	Variant	Material	Colour	Article-No.
RCC180LM6		34.9	154.0	19.4	36.0	6.5	113.3	Long	PA66HIRHSUV, ST, ZN	Black (BK)	151-01655
RCC180SM6		34.9	103.0	19.4	36.0	6.5	62.3	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01653
RCC180SM8		34.9	103.0	19.4	36.0	8.31	62.3	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01474
RCC90LM6		34.9	129.2	19.4	36.0	6.5	39.9	Long	PA66HIRHSUV, ST, ZN	Black (BK)	151-01660
RCC90LM8		34.9	129.2	19.4	36.0	8.31	39.9	Long	PA66HIRHSUV, ST, ZN	Black (BK)	151-01495
RCC90SM6		34.9	101.2	19.4	36.0	6.5	39.9	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01659
RCC90SM8		34.9	101.2	19.4	36.0	8.31	39.9	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01492

All dimensions in mm. Subject to technical changes.

Material specification please see page 26.

For bundle diameters from 36.0 mm to 51.0 mm, D-Series

TYPE	Drawing	Width (W)	Length (L2)	Bundle Ø min.	Bundle Ø max.	Hole Ø (FH)	Fixing Hole Centres (F)	Variant	Material	Colour	Article-No.
RCD180SM8		34.9	115.5	36.0	51.0	8.31	70.0	Short	PA66HIRHSUV, ST, ZN	Black (BK)	151-01499
RCD90LM8		34.9	116.7	36.0	51.0	8.31	42.4	Long	PA66HIRHSUV, ST, ZN	Black (BK)	151-01521

All dimensions in mm. Subject to technical changes.

For product specific approvals and specifications please refer to the Appendix.

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Material Specification Overview

MATERIAL	Material Shortcut	Operating Temperature	Colour**	Flammability	Material Properties*	Material Specifications
Aluminium alloy	AL	-40 °C to +180 °C	Natural (NA)		• Corrosion resistant • Antimagnetic	RoHS
Chloroprene rubber	CR	-20 °C to +80 °C	Black (BK)		• Weather resistant • High yield strength	RoHS
Ethylene Tetrafluoroethylene (Tefzel®)	E/TFE	-80 °C to +170 °C	Blue (BU)	UL 94 V0	• Resistance to radioactivity • UV resistant, not moisture sensitive • Good chemical resistance to acids, bases, oxidizing agents	RoHS
Polyacetal	POM	-40 °C to +90 °C, (+110 °C, 500 h)	Natural (NA)	UL 94 HB	• Limited brittleness sensitivity • Flexible at low temperature • Not moisture sensitive • Robust on impact	RoHS
Polyamide 11	PA11	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK)	UL 94 HB	• Bio-plastic, derived from vegetable oil • Strong impact resistance at low temperature • Very low moisture absorption • Weather resistant • Good chemical resistance	HF RoHS
Polyamide 12	PA12	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK)	UL 94 HB	• Good chemical resistance to acids, bases, oxidizing agents • UV resistant	HF RoHS
Polyamide 4.6	PA46	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)	Natural (NA), Grey (GY)	UL 94 V2	• Resistance to high temperatures • Very moisture sensitive • Low smoke sensitivity	HF LFH RoHS
Polyamide 6	PA6	-40 °C to +80 °C	Black (BK)	UL 94 V2	• High yield strength	RoHS
Polyamide 6, high impact modified	PA6HIR	-40 °C to +80 °C	Black (BK)	UL 94 HB	• Limited brittleness sensitivity • Higher flexibility at low temperature	RoHS
Polyamide 6.6	PA66	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK), Natural (NA)	UL 94 V2	• High yield strength	HF RoHS
Polyamide 6.6, glass-fibre reinforced	PA66GF13	-40 °C to +105 °C, (+105 °C for 500 h)	Black (BK)	UL 94 HB	• Good resistance to lubricants, fuels, salt water and solvents	HF RoHS
Polyamide 6.6, heat and UV-stabilised	PA66HSUV	-40 °C to +105 °C, (+105 °C for 500 h)	Black (BK)	UL 94 V2	• High yield strength • Modified elevated maximum temperature • UV resistant	HF RoHS
Polyamide 6.6, heat stabilised	PA66HS	-40 °C to +105 °C, (+105 °C for 500 h)	Black (BK), Natural (NA)	UL 94 V2	• High yield strength • Modified elevated maximum temperature	HF RoHS
Polyamide 6.6, high impact modified	PA66HIR	-40 °C to +80 °C, (+105 °C, 500 h)	Black (BK)	UL 94 HB	• Limited brittleness sensitivity • Higher flexibility at low temperature	RoHS
Polyamide 6.6, high impact modified, heat and UV-stabilised	PA66HIRHSUV	-40 °C to +110 °C	Black (BK)	UL 94 HB	• Limited brittleness sensitivity • Higher flexibility at low temperature • Modified elevated maximum temperature • High yield strength, UV resistant	RoHS
Polyamide 6.6, high impact modified, heat stabilised	PA66HIRHS	-40 °C to +105 °C, (+105 °C for 500 h)	Black (BK)	UL 94 HB	• Limited brittleness sensitivity • Higher flexibility at low temperature • Modified elevated maximum temperature	RoHS
Polyamide 6.6, high impact modified, scan black	PA66HIR(S)	-40 °C to +80 °C, (+105 °C, 500 h)	Black (BK)	UL 94 HB	• Limited brittleness sensitivity • Higher flexibility at low temperature	RoHS
Polyamide 6.6, UV-resistant	PA66W	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK)	UL 94 V2	• High yield strength • UV resistant	HF RoHS
Polyamide 6.6, with metal particles	PA66MP	-40 °C to +85 °C, (+105 °C, 500 h)	Blue (BU)	UL 94 HB	• High yield strength • Metal and X-Ray detectable	HF RoHS
Polyamide 6.6, with metal particles	PA66MP+	-40 °C to +85 °C	Blue (BU)	not flame-retardant	• High yield strength • Metal and X-Ray detectable	HF RoHS

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MATERIAL	Material Shortcut	Operating Temperature	Colour**	Flammability	Material Properties*	Material Specifications
Polyamide 6.6 V0	PA66V0	-40 °C to +85 °C	White (WH)	UL 94 V0	• High yield strength • Low smoke emission	HF LFH RoHS
Polyester	SP	-50 °C to +150 °C	Black (BK)		• UV resistant • Good chemical resistance to most acids, bases and oils	HF LFH RoHS
Polyetheretherketone	PEEK	-55 °C to +240 °C	Beige (BGE)	UL 94 V0	• Resistance to radioactivity • Not moisture sensitive • Good chemical resistance to acids, bases, oxidising agents	HF LFH RoHS
Polyethylene	PE	-40 °C to +50 °C	Black (BK), Grey (GY)	UL 94 HB	• Low moisture absorption • Good chemical resistance to most acids, bases, alcohol, oils	HF RoHS
Polyolefin	PO	-40 °C to +90 °C	Black (BK)	UL 94 V0	• Low smoke emissions	HF LFH RoHS
Polypropylene	PP	-40 °C to +115 °C	Black (BK), Natural (NA)	UL 94 HB	• Floats in water • Moderate yield strength • Good chemical resistance to acids, bases and solvents	HF RoHS
Polypropylene, Ethylene Propylene Diene Terpolymer rubber free of Nitrosamine	PP, EPDM	-20 °C to +95 °C	Black (BK)	UL 94 HB	• Good resistance to high temperature • Good chemical and abrasion resistance	HF RoHS
Polypropylene with metal particles	PPMP	-40 °C to +115 °C	Blue (BU)	UL 94 HB	• Metal and X-Ray detectable • Heat resistant • Moderate yield strength • Good chemical resistance	RoHS
Polypropylene with metal particles	PPMP+	-40 °C to +85 °C	Blue (BU)	not flame-retardant	• High yield strength • Metal and X-Ray detectable	HF RoHS
Polyvinylchloride	PVC	-10 °C to +70 °C	Black (BK), Natural (NA)	UL 94 V0	• Low moisture absorption • Good chemical resistance to acids, bases, salts, alcohol, oils	RoHS
Stainless Steel	SS304, SS316	-80 °C to +538 °C	Natural (NA)	Non burning	• Corrosion resistant • Antimagnetic • Weather resistant • Chemical resistance • SS316 also resistant against seawater, salt spray and anorganic acids	HF LFH RoHS
Thermoplastic Polyurethane	TPU	-40 °C to +85 °C	Black (BK)	UL 94 HB	• High elasticity • Good chemical resistance to: • acids, bases and oxidizing agents	HF RoHS

Tefzel® is a registered trademark of DuPont. General linguistic usage for cable ties made from raw material E/TFE is Tefzel®-Tie. In additon to Tefzel® from DuPont HellermannTyton also uses equivalent E/TFE raw material from other suppliers.

**Further colours available on request.

*These details are only guide values. They should not be regarded as a exhaustive material specification and are no substitute for suitability tests. Please see our datasheets for further details.

N = **Minimum Loop Tensile Strength for Cable Ties (newton)**

HF = Halogen Free

LFH = Limited Fire Hazard

RoHS = Restriction of Hazardous Substances

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